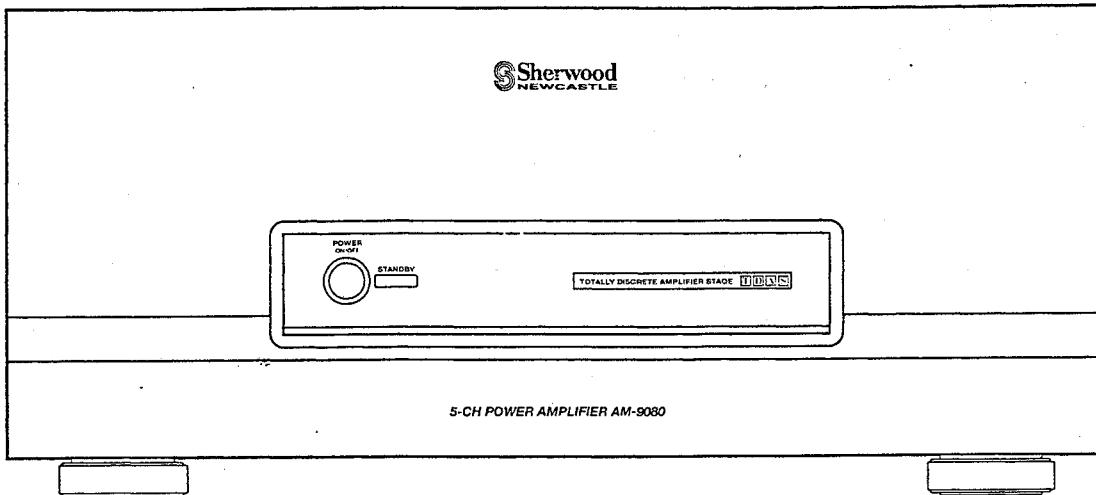


# SERVICE MANUAL

## AM-9080/B Sherwood 5-CH POWER AMPLIFIER



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## SAFETY PRECAUTIONS

### WARNING

Before servicing this unit, familiarize yourself with the following precautions:

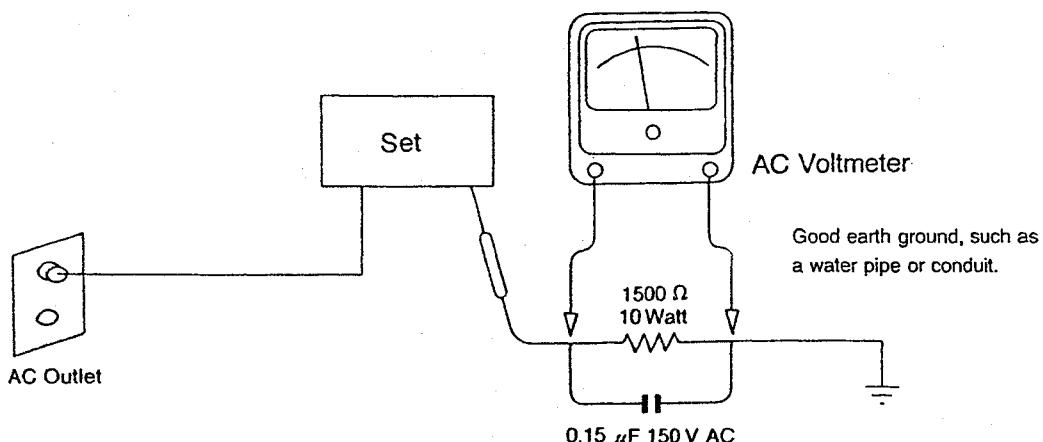
1. Many electrical and mechanical parts in this chassis have special safety characteristics that often pass unnoticed and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts that have these special safety characteristics are identified in this manual and its supplements: electrical components having such features are identified by  in the schematic diagram and the parts list.

Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts that do not have the same safety characteristics as specified in the parts list may create shock, fire, or other hazards.

2. Before returning the set to the customer, always do an AC leakage current check on the

exposed metal parts of the cabinet, such as terminals, screw heads, and metal overlays, to be sure the set is safe to operate danger of electrical shock. Plug the AC line cord directly into a 120 V AC outlet (120 V AC version only). (Do not use a line isolation transformer during this check.) Be sure your AC voltmeter has a sensitivity of 5000  $\Omega$  per volt or greater. Then connect a 1500  $\Omega$  10 watt resistor, paralleled by a 0.15  $\mu\text{F}$  150 V AC capacitor, between a known good earth ground (such as a water pipe, or conduit) and the exposed metallic parts, one at a time. Measure the AC voltage across the combination of a 1500  $\Omega$  resistor and a 0.15  $\mu\text{F}$  capacitor. Reverse the AC plug at the AC outlet and repeat AC voltage measurements for each exposed metallic part. Voltage measured must not exceed 0.75V RMS. This corresponds to 0.2 mA AC. Any value exceeding this limit constitutes a potential shock hazard and must be corrected immediately.

At 5000  $\Omega$  per volt or greater sensitivity,  
the reading should not exceed 0.75 V.



Place the probe on each exposed metallic part.

## SPECIFICATIONS

• Power output, stereo mode, 8Ω (THD:0.05%,20Hz~20KHz)	.....	2 X 110W
4Ω (THD:0.09%.20Hz~20KHz)	.....	2 X 180W
• 5 - CH mode, 8Ω (THD:0.05%,1KHz)	.....	5 X 120W
4Ω (THD:0.09%,1KHz)	.....	5 X 200 W
• Dynamic power, stereo mode, 8Ω,	.....	2 X 170 W
4Ω,	.....	2 X 270 W
5 - CH mode, 8Ω	.....	5 X 165 W
4Ω	.....	5 X 260 W
• Total harmonic distortion, 8Ω, 20 Hz ~ 20 kHz, 1W	.....	0.03%
• Intermodulation distortion, 8Ω, SMPTE, 1W	.....	0.03%
• Input sensitivity, 47kΩ	.....	1000 mV
• Signal to noise ratio, IHF "A" weighted		
Reference 100W, 8Ω, 0 dB	.....	115 dB
Reference 1W, 8Ω, 0 dB	.....	100 dB
• Frequency Response, 5 Hz ~ 450 kHz	.....	+0, -3 dB
• Channel separation		
1 kHz	.....	80 dB
10 kHz	.....	70 dB
• Damping factor	.....	125

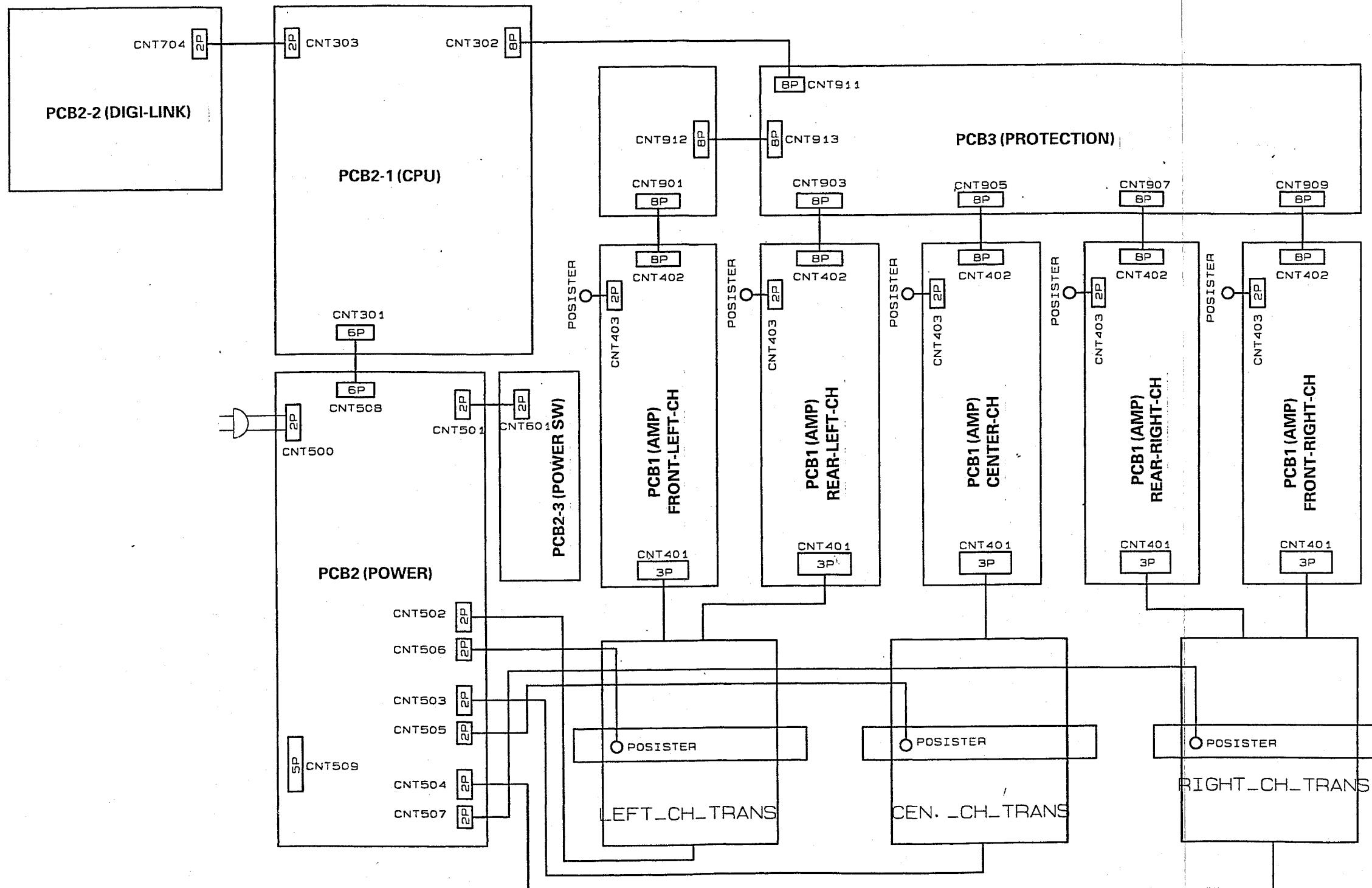
### ■ GENERAL

• Power supply	.....	AC 230V, 50 Hz
• Power consumption, stanby mode	.....	1 W
operating (power on) mode	.....	1900 W
• Dimensions	.....	440 X 180 X 450 mm (17-3/8 X 7-1/16X 17-3/4 inches)
• Weight (Net)	.....	32 kg (70.5 lbs)

Note : Design and specifications are subject to change without notice for improvements.

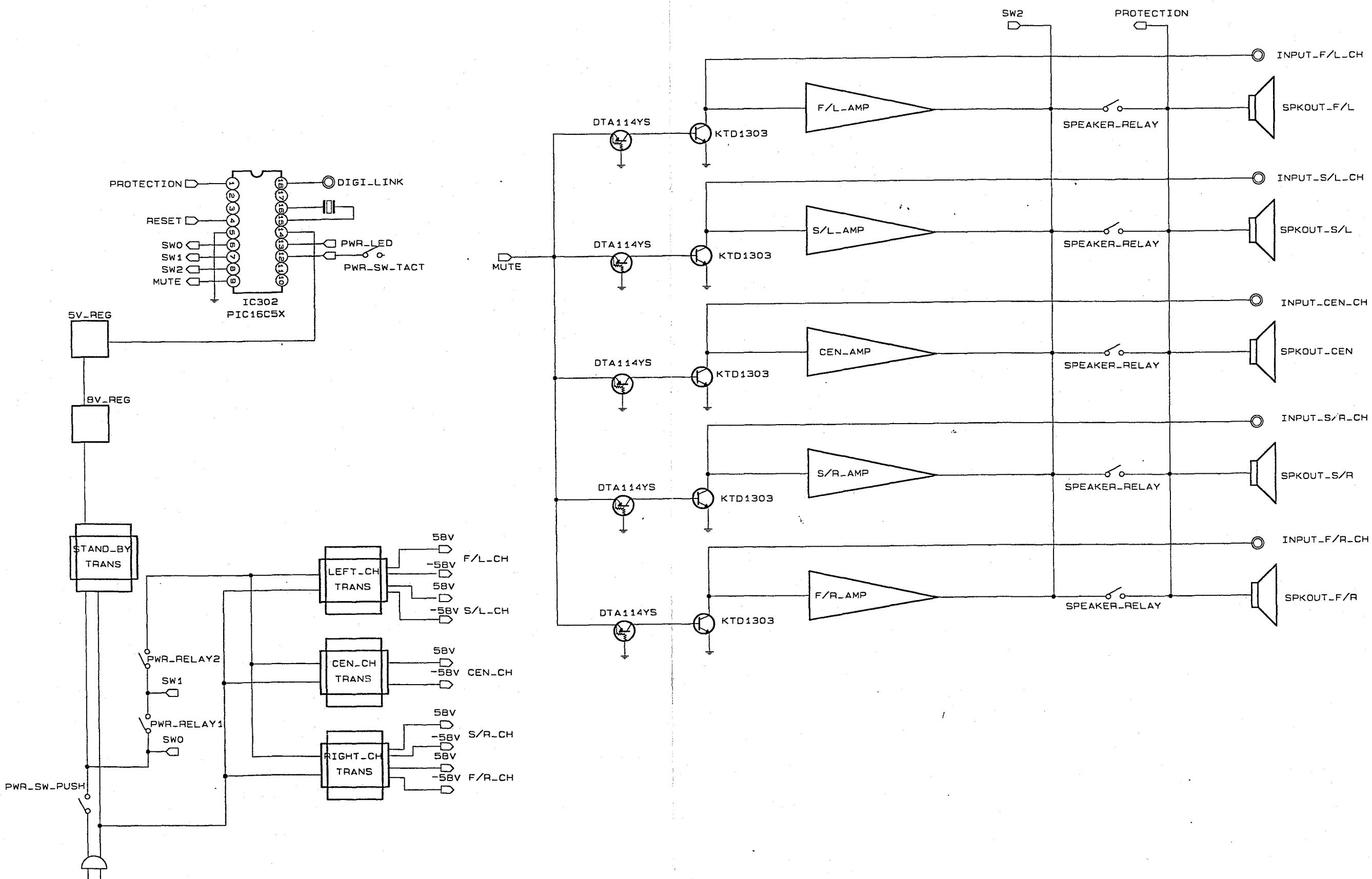
# WIRING DIAGRAM

Model No. : AM-9080/B



# BLOCK DIAGRAM

Model No.: AM-9080/B



## TROUBLESHOOTING

If a fault occurs, please consult the table below before taking your power amplifier in for repair. If the fault persists, please attempt to solve it by switching the power amplifier off and then on again.

If this fails to resolve the situation, consult your dealer.

Under no circumstances should you attempt to repair the power amplifier yourself as this could cause injury and invalidate the warranty.

No power	<ul style="list-style-type: none"><li>• The AC input cord is disconnected.</li><li>• Poor connection at AC wall outlet or the outlet is inactive.</li></ul>	<ul style="list-style-type: none"><li>• Connect cord securely.</li><li>• Check the outlet using a lamp or another appliance.</li></ul>
No sound	<ul style="list-style-type: none"><li>• Speaker cords are disconnected.</li><li>• Incorrect connections between the components.</li><li>• Incorrect operation of the pre amplifier.</li></ul>	<ul style="list-style-type: none"><li>• Check the speaker connections.</li><li>• Make connections correctly.</li><li>• Check the functions of the pre amplifier and operate correctly.</li></ul>
No sound from one channel	<ul style="list-style-type: none"><li>• Speaker cords are connected incorrectly or incompletely.</li><li>• Incorrect connections between the components.</li><li>• Defective speaker.</li></ul>	<ul style="list-style-type: none"><li>• Check the speaker connections and reconnect them.</li><li>• Make connections correctly.</li><li>• Check the speaker and repair it or replace by new one.</li></ul>
Excessive hum at normal volume level	<ul style="list-style-type: none"><li>• The hum is induced from other components.</li><li>• Defective connection cords.</li></ul>	<ul style="list-style-type: none"><li>• Place the power amplifier away from the pre amplifier and record player.</li><li>• Replace by new ones.</li></ul>
Distorted sound	<ul style="list-style-type: none"><li>• The power amplifier overdriven.</li><li>• Too low impedance speakers are connected.</li></ul>	<ul style="list-style-type: none"><li>• Decrease the volume on the pre amplifier.</li><li>• Check the speakers and use the speakers with the impedance of 4~8Ω.</li></ul>

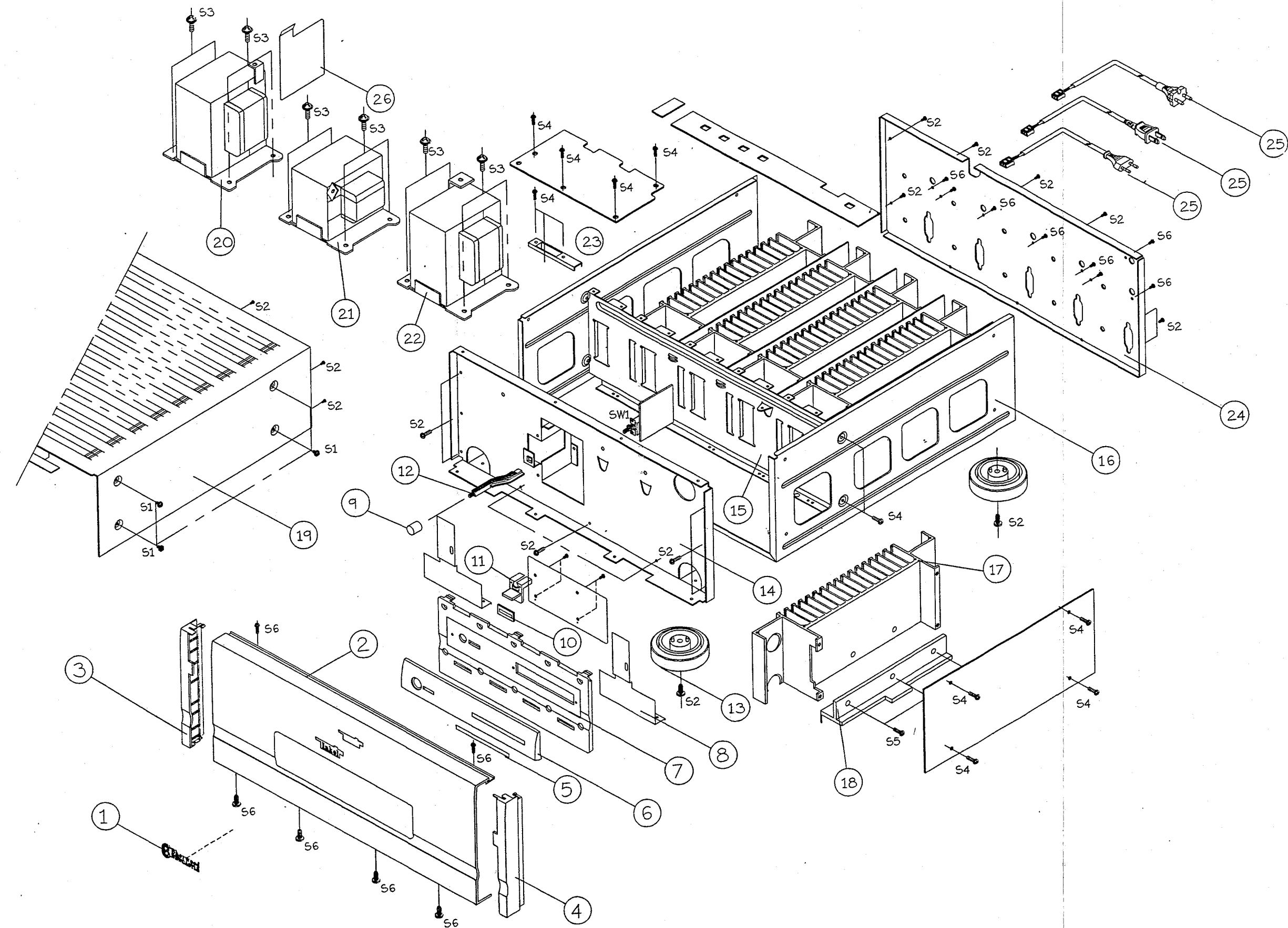
## MECHANICAL PARTS LIST

\* Parts without Parts No are not suplied.

REF NO.	DESCRIPTION	PARTS NO.	Q'TY	VER.	REF NO.	DESCRIPTION	PARTS NO.	Q'TY	VER.
	PACKAGE				22	POWER TRANS, 220V/60HZ (150MA)	8200281018570	1	K
	CUSHION, SNOW	6230045184010	1			POWER TRANS, 230V/50HZ (130MA)	8200281018270	1	B/D
	DIGI LINK, GOLD	L063040790000	1			POWER TRANS, 120V/60HZ (230MA)	8200281018870	1	A
	GIFT BOX	6007040740100	1	A	23	BRACKET, HEAT SINK	4010057136010	1	
	GIFT BOX	6007040740200	1	B/D/K	24	BACK CHASSIS	3207056456010	1	K
	INSTRUCTION MANUAL	5707046970010	1	A		BACK CHASSIS	3207056456020	1	A
	INSTRUCTION MANUAL	5707046970020	1	K		BACK CHASSIS	3207056456030	1	B/D
	INSTRUCTION MANUAL	5707046970031	1	B/D	25	CORD ASSY, 15A/250V (2400MM)	L068000990010	1	K
	POLY BAG (330*240*0.05)	6330040062010	1			CORD ASSY, 16A/250A (2800MM)	L068001000010	1	B/D
	POLY BAG, 800(W)*900(D)*0.08T	6330041319010	1			CORD ASSY, 15A/125V (2500MM)	L068001010010	1	A
	RCA CORD (1500MM*6)	L063115200010	1		26	POWER SHIELD	3070200012010	1	A
	WARRANTY CARD	5727040060010	1	K					
	WARRANTY CARD	5727041620020	1	B/D		SCREWS			
	WARRANTY CARD	5727041630010	1	A	S1	SCREW, +3S 4*8 BK/BH	B020940083B10	1	
	WARRANTY CARD (NORSAT)	5727041040020	1	K	S2	SCREW +2S 3*8 B-TYPE BK/BH	B020030083B10	1	
					S3	SCREW +WSAM 4X8B	B020940083W10	1	
					S4	SCREW W/PTT3X6Y	B020030061W10	1	
	CABINET & CHASSIS				S5	SCREW, WASHER ZNY+2S 3*16	1507041146010	1	
1	BADGE, INKEL	5637041181010	1	K	S6	SCREW, COATING GND	1507040996020	1	
	BADGE, NEWCASTLE	5637041237010	1	A/B/D	S7	SCREW, #2FTC 3X8B	B010530083F10	1	
2	FRONT PANEL	3067046428010	1	K					
	FRONT PANEL	3067046428020	1	A/D					
	FRONT PANEL	3067046428030	1	B		MISCELLANEOUS			
3	END CAP "L"	4317049991010	1	A/D/K		BUSHING	2410040353010	1	B/D
	END CAP "L"	4317049991020	1	B		TERMINAL GND	3790040766010	1	B/D
4	END CAP "R"	4317049981010	1	A/D/K		CUSHION, 20*1*50	4050043515020	1	B/D
	END CAP "R"	4317049981020	1	B		CUSHION, 20*1*260	4050043525010	1	B/D
5	BADGE, TDAS	5637041171010	1	K		CABLE TIE DACT-100A	4330040343010	1	B/D
6	COVER PANEL	3067046498010	1	D/K					
	COVER PANEL	3067046498020	1	A					
	COVER PANEL	3067046498030	1	B					
7	DECORATION, GRAY PANEL	5127041101010	1	A/D/K					
	DECORATION, BLACK PANEL	5127041101020	1	B					
8	SHIELD COVER	3070046750010	1						
9	BUTTON PUSH	5088041338010	1	A/D/K					
	BUTTON PUSH	5088041338020	1	B					
10	CUSHION, BUTTON ST-BY	4050048019010	1						
11	BUTTON, STAND BY	5090091001010	1						
12	SHAFT SWITCH	2400041551010	1						
13	FOOT	4007041021010	4						
14	FRONT CHASSIS	3200056466010	1						
15	CENTER CHASSIS	3200056456010	1						
16	MAIN CHASSIS	3200056476010	1						
17	HEAT SINK, MAIN	2120044998010	1						
18	HEAT SINK, SUB	2120045008010	1						
19	TOP CABINET	3007045466010	1						
20	POWER TRANS, 220V/60HZ (150MA)	8200281018470	1	K					
	POWER TRANS, 230V/50HZ (130MA)	8200281018170	1	B/D					
	POWER TRANS, 120V/60HZ (230MA)	8200281018770	1	A					
21	POWER TRANS, 220V/60HZ (100MA)	8200281018670	1	K					
	POWER TRANS, 230V/50HZ (130MA)	8200281018370	1	B/D					
	POWER TRANS, 120V/60HZ (180MA)	8200281018970	1	A					

## EXPLODED VIEW

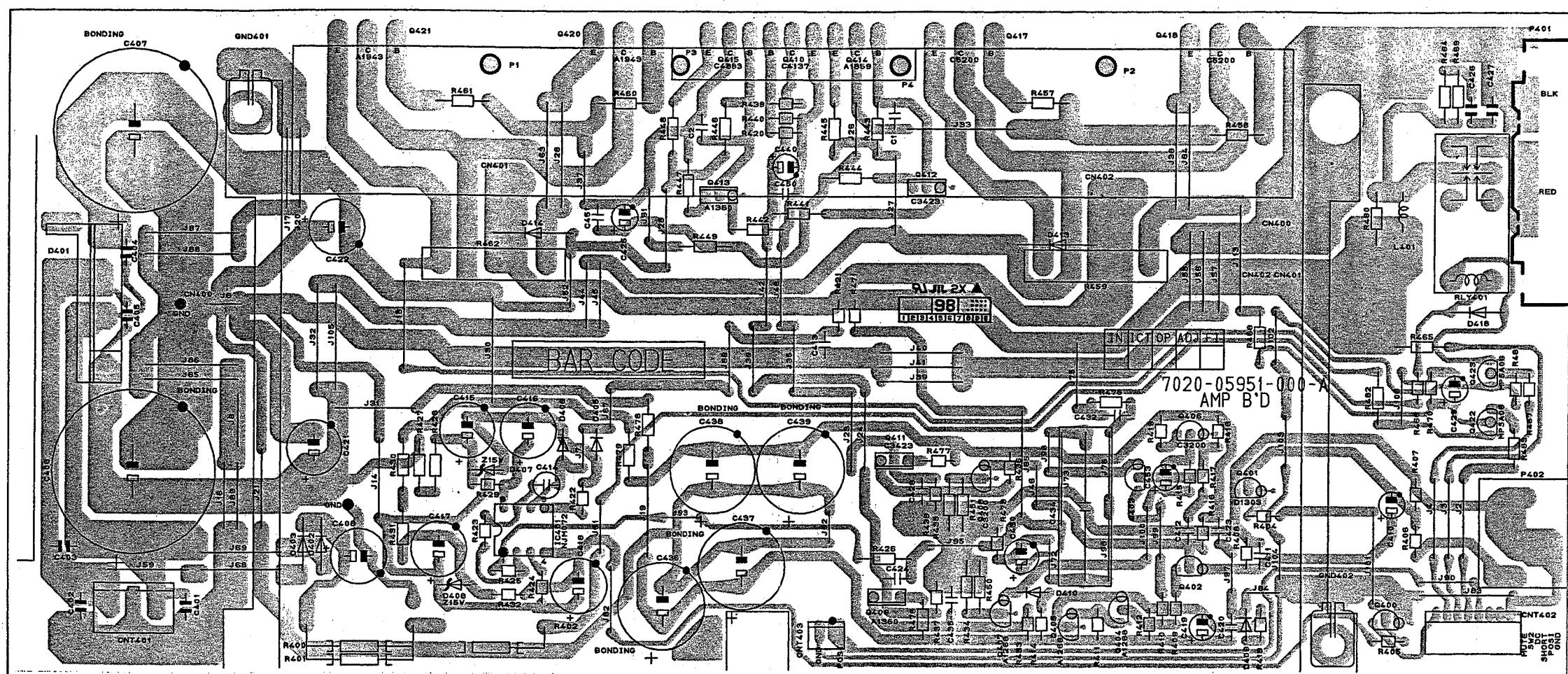
Model No. : AM-9080/B



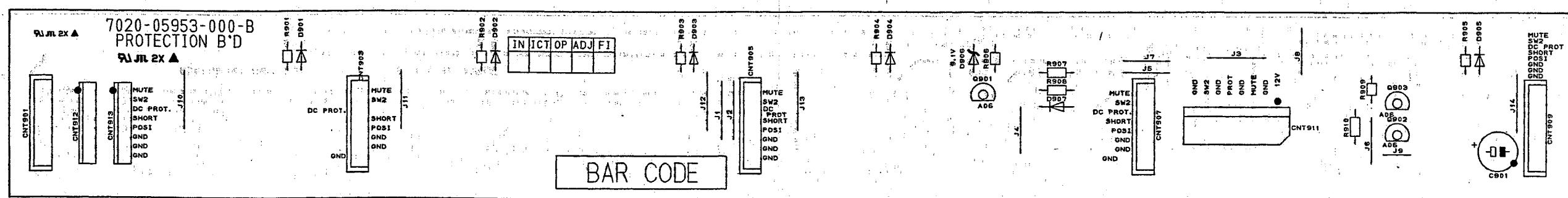
## **PRINTED CIRCUIT BOARDS**

Model No. : AM-9080/B

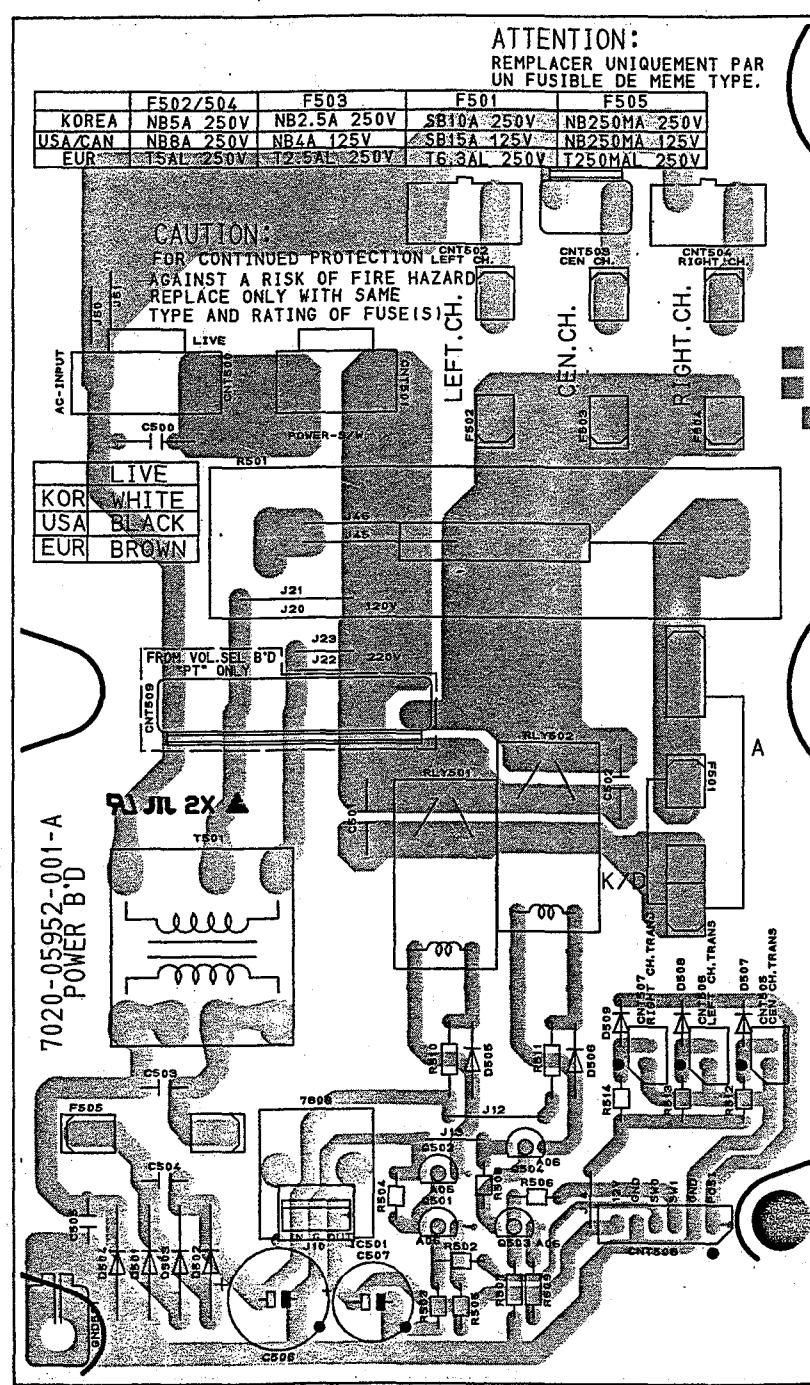
PCB1 (AMF)



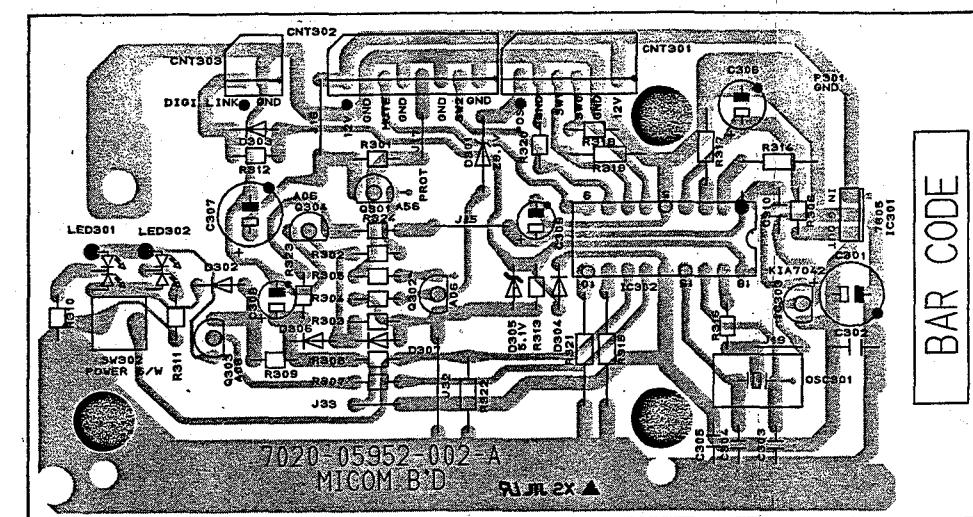
PCB3 (PROTECT)



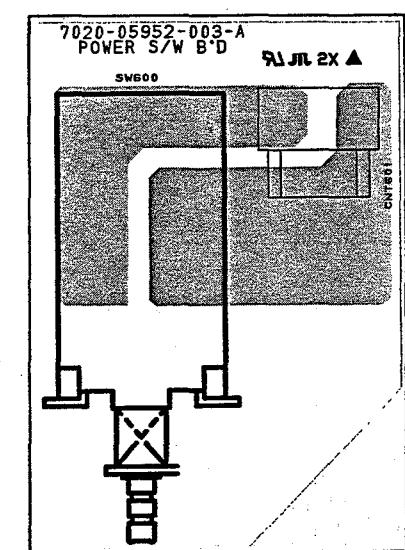
PCB2 (POWER)



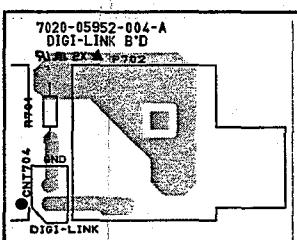
PCB2-1 (CPU)



PCB2-3  
(POWER SW)



PCB2-2 (DIGI-LINK)



## ELECTRICAL PARTS LIST

\* Part without Parts No are not supplied.

REF NO.	DESCRIPTION	Q'TY	PARTS NO.	VER.
PCB1	ASSEMBLY P.C.BOARD AMP	1	7028040948900	
	CAPACITORS			
C401	FILM POLYESTER	0.1 uF	250V K 5	D02010407H080
C402	FILM POLYESTER	0.1 uF	250V K 5	D02010407H080
C403	FILM POLYESTER	0.1 uF	250V K 5	D02010407H080
C404	FILM POLYESTER	0.1 uF	250V K 5	D02010407H080
C405	FILM POLYESTER	0.1 uF	250V K 5	D02010407H080
C406	ELECT GE 85C	6800 uF	80V M 5	D04068208B360
C407	ELECT GE 85C	6800 uF	80V M 5	D04068208B360
C408	ELECT GE 105C	47 uF	100V M 5	D04147006C050
C410	ELECT GE 105C	10 uF	50V M 5	D041100067050
C411	CERAMIC T.C DISC	68 pF	50V J 5	D000680067050
C413	CERAMIC HIK DISC	100 pF	50V J 5	D004101067060
C414	ELECT BP 85C	4.7 uF	50V M 5	D0424R7087100
C415	ELECT GE 105C	47 uF	100V M 5	D04147006C050
C416	ELECT GE 105C	47 uF	100V M 5	D04147006C050
C417	ELECT GE 105C	47 uF	100V M 5	D04147006C050
C418	ELECT GE 105C	47 uF	100V M 5	D04147006C050
C419	ELECT GE 105C	100 uF	10V M 5	D041101062050
C420	FILM POLYESTER	0.1 uF	250V K 5	D02010407H080
C421	ELECT GE 105C	47 uF	100V M 5	D04147006C050
C422	ELECT GE 105C	47 uF	100V M 5	D04147006C050
C423	FILM POLYESTER	0.1 uF	250V K 5	D02010407H080
C424	CERAMIC T.C DISC	3 pF	50V D 5	D000030017060
C425	ELECT GE 105C	10 uF	50V M 5	D041100067050
C426	FILM POLYESTER	0.047 uF	100V J 5	D02047306C060
C427	FILM POLYESTER	0.047 uF	100V J 5	D02047306C060
C428	CERAMIC T.C AXIAL	120 pF	50V J 5	D001121067060
C429	ELECT GE 105C	10 uF	50V M 5	D041100067050
C430	ELECT GE 105C	100 uF	10V M 5	D041101062050
C434	FILM METALIZER	4.7 uF	100V J 5	D02347506C000
C436	ELECT GE 105C	330 uF	80V M 5	D04133106B000
C437	ELECT GE 105C	330 uF	80V M 5	D04133106B000
C438	ELECT GE 105C	330 uF	80V M 5	D04133106B000
C439	ELECT GE 105C	330 uF	80V M 5	D04133106B000
C440	ELECT GE 105C	10 uF	50V M 5	D041100067050
C450	CERAMIC HIK DISC	0.047 uF	50V Z 5	D004473597050
C451	CERAMIC HIK DISC	0.047 uF	50V Z 5	D004473597050
	CONNECTORS			
CNT401	CN.WAFER 3.96MM (3P)	5	L104527303010	
CNT402	CABLE HOLDER 2.0MM (8P)	5	L111080020000	
CNT403	ASSY POSISTOR WIRE 120MM,2.5MM	5	F328380001200	
	DIODES			
D401	D5SBA60, BRIDGE	5	K047056000000	
D402	1N4003, RECTIFIER	5	K040400300520	
D403	1N4003, RECTIFIER	5	K040400300520	
D405	1SS133T, SWITCHING	5	K000013300520	
D406	1SS133T, SWITCHING	5	K000013300520	
D407	MTZJ15B, ZENER	5	K06015R044520	
D408	MTZJ15B, ZENER	5	K06015R044520	
D409	1SS133T, SWITCHING	5	K000013300520	
D410	1SS133T, SWITCHING	5	K000013300520	
D413	1N4003, RECTIFIER	5	K040400300520	
D414	1N4003, RECTIFIER	5	K040400300520	
D418	1N4003, RECTIFIER	5	K040400300520	
	INTEGRATED CIRCUITS			
IC401	NJM072D, OP	5	J121007200000	

REF NO.	DESCRIPTION	Q'TY	PARTS NO.	VER.
L401	COILS			
L401	INDUCTOR COIL, J9000031	5	D330900001320	
	TRANSISTORS			
Q400	DTA114YS, PNP	5	J6000114Y0010	
Q401	KTD1303, NPN	5	J503130300050	
Q402	KTA1274Y, PNP	5	J5001274Y0050	
Q403	KTA1274Y, PNP	5	J5001268B0050	
Q404	KTA1268BL, PNP	5	J5001268B0050	
Q405	KTA1268BL, PNP	5	J5001268B0050	
Q406	KTC2240BL(BKTC3200), NPN	5	J5023200B0050	
Q407	KTA1268BL, PNP	5	J5001268B0050	
Q408	KTC2240BL(BKTC3200), NPN	5	J5023200B0050	
Q409	2SA1360, PNP	5	J5001360000D	
Q410	2SC4137, NPN	5	J5024137V0130	
Q411	2SC3423, NPN	5	J5023423O0000	
Q412	2SC3423, NPN	5	J5023423O0000	
Q413	2SA1360, PNP	5	J5001360000D	
Q414	2SA1859A, PNP	5	J5001859Y0000	
Q415	2SC4883, NPN	5	J5024883Y0000	
Q417/Q418	2SC5200, NPN	10	J502520000010	
Q420/Q421	2SA1943, PNP	10	J500194300010	
Q422	MPSA05, NPN	5	J5020600Y0050	
Q423	MPSA05, NPN	5	J5020600Y0050	
	RESISTORS			
R400	METAL FILM	10 kohm	2W J 5	C060010366520
R401	METAL FILM	680 ohm	2W J 5	C060068166520
R402	METAL FILM	680 ohm	2W J 5	C060068166520
R404	METAL FILM	3.3 kohm	1/5W J 5	C06004326P520
R405	CARBON FILM	4.7 Mohm	1/5W J 5	C00004756P520
R406	METAL FILM	1 kohm	1/5W J 5	C06001026P520
R407	CARBON FILM	100 kohm	1/5W J 5	C00001046P520
R408	CARBON FILM	100 kohm	1/5W J 5	C00001046P520
R409	METAL FILM	180 ohm	1/5W J 5	C06001816P520
R410	METAL FILM	180 ohm	1/5W J 5	C06001816P520
R411	CARBON FILM	150 ohm	1/5W J 5	C00001516P520
R412	CARBON FILM	10 kohm	1/5W J 5	C00001036P520
R413	CARBON FILM	33 kohm	1/5W J 5	C00003336P520
R414	METAL FILM	560 ohm	1/5W J 5	C06005616P520
R416	METAL FILM	1 kohm	1/5W J 5	C06001026P520
R418	METAL FILM	1 kohm	1/5W J 5	C06001026P520
R419	METAL FILM	560 ohm	1/5W J 5	C06005616P520
R420	CARBON FILM	1.3 kohm	1/5W J 5	C00001326P520
R421	CARBON FILM	56 kohm	1/5W J 5	C00005636P520
R422	METAL FILM	10 kohm	2W J 5	C060010366520
R423	METAL FILM	4.7 kohm	1/5W J 5	C06004726P520
R424	METAL FILM	2.4 kohm	1/5W J 5	C06002426P520
R425	METAL FILM	4.7 kohm	1/5W J 5	C06004726P520
R426	METAL FILM	2.4 kohm	1/5W J 5	C06002426P520
R427	METAL FILM	3.9 kohm	1W J 5	C060039265520
R428	METAL FILM	3.9 kohm	1W J 5	C060039265520
R429	METAL FILM	47 ohm	1/5W J 5	C06004706P520
R430	METAL FILM	3.9 kohm	1W J 5	C060039265520
R431	METAL FILM	3.9 kohm	1W J 5	C060039265520
R432	METAL FILM	47 ohm	1/5W J 5	C06004706P520
R433	METAL FILM	560 ohm	1/5W J 5	C06005616P520
R434	FUSIBLE METAL	560 ohm	1/4W J 5	C101056163100
R435	FUSIBLE METAL	560 ohm	1/4W J 5	C101056163100
R436	METAL FILM	560 ohm	1/5W J 5	C06005616P520
R437	CARBON FILM	15 kohm	1/5W J 5	C00001536P520

REF NO.	DESCRIPTION	Q'TY	PARTS NO.	VER.
R438	CARBON FILM	15 kohm	1/5W J 5	C00001536P520
R439	METAL FILM	2.7 kohm	1/5W J 5	C06002726P520
R440	METAL FILM	2.7 kohm	1/5W J 5	C06001016P520
R441	MET			

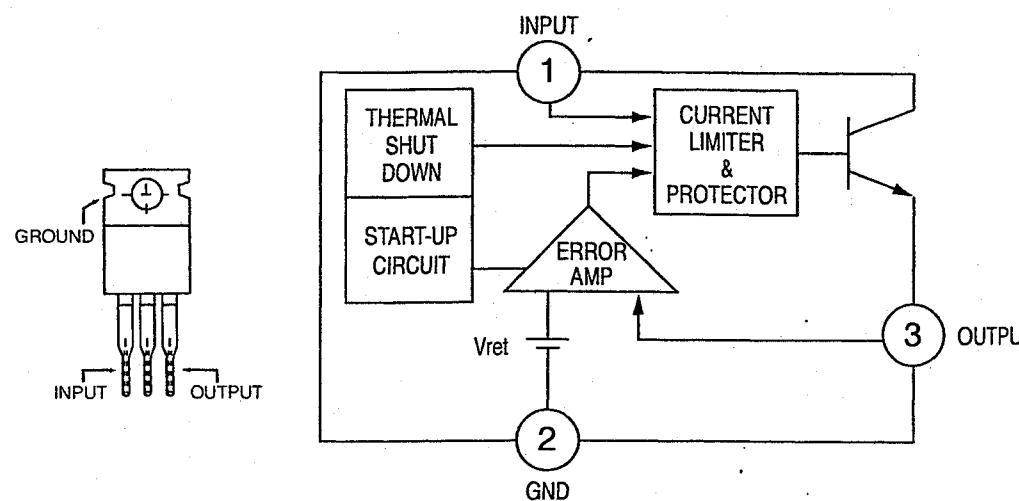
REF NO.	DESCRIPTION	Q'TY	PARTS NO.	VER.
CNT500	CN.WAFER (3P)	1	L109030000010	
CNT501	CN.WAFER (2P)	1	L109020000010	
CNT502	CN.WAFER 3.96MM	1	L104353280200	
CNT503	CN.WAFER 7.92MM (2P)	1	L108202000220	
CNT504	CN.WAFER 3.96MM	1	L104353280200	
CNT505-CNT507	CN.WAFER 2.5MM (2P)	3	L102526700200	
CNT508	CN.WAFER 2.5MM (6P)	1	L102526700600	
<b>DIODES</b>				
D501-D506	1N4003, RECTIFIER	6	K040400300520	
D507-D509	ISS133T, SWITCHING	3	K000013300520	
<b>POISISTERS</b>				
CNT505/507	POSISTOR WIRE 180 (2.5P)	2	F328380001830	
CNT506	POSISTOR WIRE 280 (2.5P)	1	F328380002830	
CNT302-911	CN.WIRE 2.5MM (CTM0870)	1	L003701082600	
CNT303-704	CN.WIRE 2.5MM (CTM0270)	1	L003701022600	
CNT501-601	CN.WIRE (CTJ0218)	1	L001181021800	
CNT508-301	CN.WIRE 2.5MM (CTM0650)	1	L003501062600	
<b>FUSES</b>				
F501	FUSE, 250V/S10A	1	G650103251140	K
F501	FUSE, 250V/T6.3A	1	G650632251160	B/D
F501	FUSE, 125V/S15A	1	G651153121100	A
F502	FUSE, 250V/53NM5A	1	G650502251150	K
F502	FUSE, 250V/T5A	1	G650502251160	B/D
F502	FUSE, 250V/NM6A	1	G650802251050	A
F503	FUSE, 250V/NM2.5A	1	G650252251150	K
F503	FUSE, 250V/T2.5A	1	G650252251160	B/D
F503	FUSE, 125V/NM4A	1	G650402121160	A
F504	FUSE, 250V/53NM5A	1	G650502251150	K
F504	FUSE, 250V/T5A	1	G650502251160	B/D
F504	FUSE, 250V/NM8A	1	G650802251050	A
F505	FUSE, 250V/NM250MA	1	G650251251150	A/K
F505	FUSE, 250V/T250MA	1	G650251251160	B/D
<b>WIRES</b>				
J12-J14	CN.WIRE 1P	3	L045084006040	
J20-J23	CN.WIRE 1P	4	L045084006040	
J45/J46	CN.WIRE 1P	2	L045084006040	
J50/J51	CN.WIRE 1P	2	L045084006040	
<b>TRANSISTORS</b>				
Q501-Q504	MPSA05, NPN	4	J5020600Y0050	
<b>RESISTORS</b>				
R501	MSP30H 4.7 30W, WIRE WOUND	1	C1204R706J100	
R502	CARBON FILM	10 kohm 1/5W J	1 C00001036P520	
R503/R504	CARBON FILM	100 kohm 1/5W J	2 C00001046P520	
R505/R506	CARBON FILM	10 kohm 1/5W J	2 C00001036P520	
R507/R508	CARBON FILM	100 kohm 1/5W J	2 C00001046P520	
R509	CARBON FILM	10 kohm 1/5W J	1 C00001036P520	
R510/R511	METAL FILM	68 ohm 1/5W J	2 C06006806P520	
R512-R514	CARBON FILM	22 kohm 1/5W J	3 C00002236P520	
<b>RELAYS</b>				
RLY501/RLY502	RELAY, JR1aF-DC12V 16A/250V TV5	2	G680120163000	B/D
RLY501/RLY502	RELAY, OSZ-SS-112DM8(TV-8)	2	G680128020000	A/K
<b>TRANS</b>				

REF NO.	DESCRIPTION	Q'TY	PARTS NO.	VER.
T501	ST-BY TRANS, 230V	1	82002800007B	B/D
T501	TRANS ST/BY, 220V/60Hz	1	820135000060	K
T501	TRANS ST/BY, 120V/60Hz	1	820135000070	A
<b>MISCELLANEOUS</b>				
GND501	TERMINAL GND	1	3790040876010	
F501	FUSE CLIP	1	6250040126010	A
F501/1	FUSE CLIP	1	6250040126010	A
F501	FUSE CLIP	1	G645000050010	B/D/K
F501/1	FUSE CLIP	1	G645000050010	B/D/K
F502-F505	FUSE CLIP	4	G645000050010	
F502/4	FUSE CLIP	1	G645000050010	
F503/1	FUSE CLIP	1	G645000050010	
F504/1	FUSE CLIP	1	G645000050010	
F505/1	FUSE CLIP	1	G645000050010	
<b>PCB2-1 ASSEMBLY P.C.BOARD CPU</b>				
<b>CAPACITORS</b>				
C301	ELECT GE 85C	220 uF	50V M	1 D040221084060
C302	CERAMIC HIK AXIAL	0.1 uF	50V Z	1 D005104597530
C305	CERAMIC HIK AXIAL	0.1 uF	50V Z	1 D005104597530
C306	ELECT GE 85C	1 uF	50V M	1 D040010087080
C307	ELECT GE 85C	220 uF	50V M	1 D040221084060
C308/C309	ELECT GE 85C	22 uF	50V M	2 D040220083070
C310	CERAMIC HIK AXIAL	0.1 uF	50V Z	1 D005104597530
<b>CONNECTORS</b>				
CNT301	CN.WAFER 2.5MM (6P)	1	L102526806010	
CNT302	CN.WAFER 2.5MM (8P)	1	L102526808010	
CNT303	CN.WAFER 2.5MM (2P)	1	L102526802010	
<b>DIODES</b>				
D301	MTZJ9.1B, ZENER	1	K06009R144520	
D302-D304	ISS133T, SWITCHING	3	K000013300520	
D305	MTZJ5.1B, ZENER	1	K06005R144520	
D306/D307	ISS133T, SWITCHING	2	K000013300520	
<b>INTEGRATED CIRCUITS</b>				
IC301	KA7805, REGULATOR	1	J126780500270	
IC302	PIC16C56XT/P, CPU	1	J020165600020	
IC303	KIA7042P, RESET	1	J125704200010	
<b>LEDS</b>				
LED301/LED302	LED, SPR-54MDW3	2	K500055106070	
<b>RESONATOR</b>				
OSC301	RESONATOR, CST4.00MGW	1	E830400000070	
<b>TRANSISTORS</b>				
Q901-Q903	MPSA05, NPN	3	J5020600Y0050	
<b>RESISTORS</b>				
R901-R905	CARBON FILM	68 kohm 1/5W J	5 C00006836P520	
R906	CARBON FILM	47 kohm 1/5W J	1 C00004736P520	
R907	CARBON FILM	10 kohm 1/5W J	1 C00001036P520	
R908	METAL FILM	4.7 kohm 1/5W J	1 C06004726P520	
R909	METAL FILM	470 kohm 1/5W J	1 C06004716P520	
R910	CARBON FILM	10 kohm 1/5W J	1 C00001036P520	
<b>MISCELLANEOUS</b>				
J10-J14	CN.WIRE 1P	5	L045084006040	
J1-J9	CN.WIRE 1P	9	L045084006040	

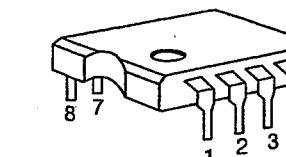
REF NO.	DESCRIPTION	Q'TY	PARTS NO.	VER.
R312	CARBON FILM	22 kohm 1/5W J	1 C00002236P520	
R313	CARBON FILM	220 kohm 1/5W J	1 C00002246P520	
R314-R316	METAL FILM	1 ohm 1/5W J	3 C06001026P520	
R318-R322	CARBON FILM	47 kohm 1/5W J	5 C00004736P520	
R323	CARBON FILM	10 kohm 1/5W J	1 C00001036P520	
R324	METAL FILM	1 ohm 1/5W J	1 C06001026P520	
<b>MISCELLANEOUS</b>				
J15-J17	CN.WIRE 1P	3 L045084006040		
J19	CN.WIRE 1P	1 L045084006040		
J32/J33	CN.WIRE 1P	2 L045084006040		
SW302	TACT SW, SKHV1092A	1 G18000270010		
<b>PCB2-2 ASSEMBLY P.C.BOARD DIGI-LINK</b>				
CNT704	CN.WAFER 2.5MM (2P)	1 L102526700200		
P702	TER.RCA 1PIN	1 G600010127030		
R701	METAL FILM	1 kohm 1/5W J	1 C06001026P520	

## IC'S FUNCTIONAL BLOCK DIAGRAM

GD7805 : IC301

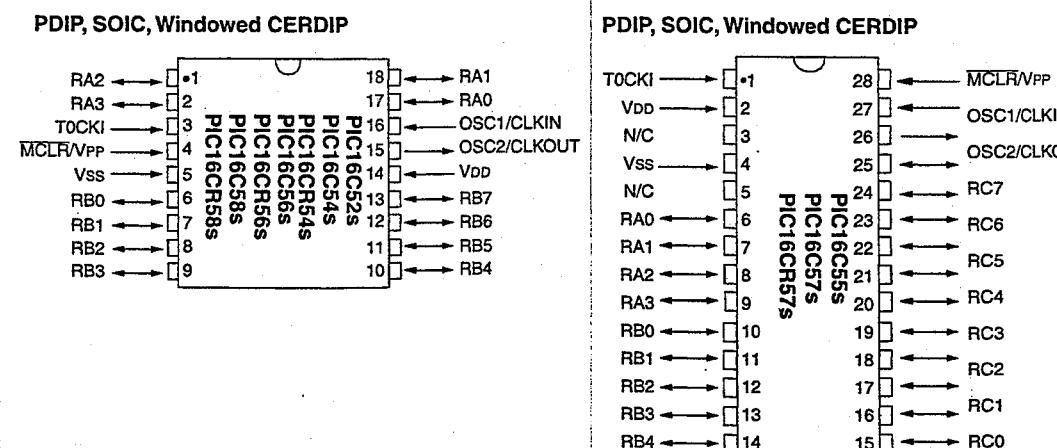


NJM7042 ; IC401

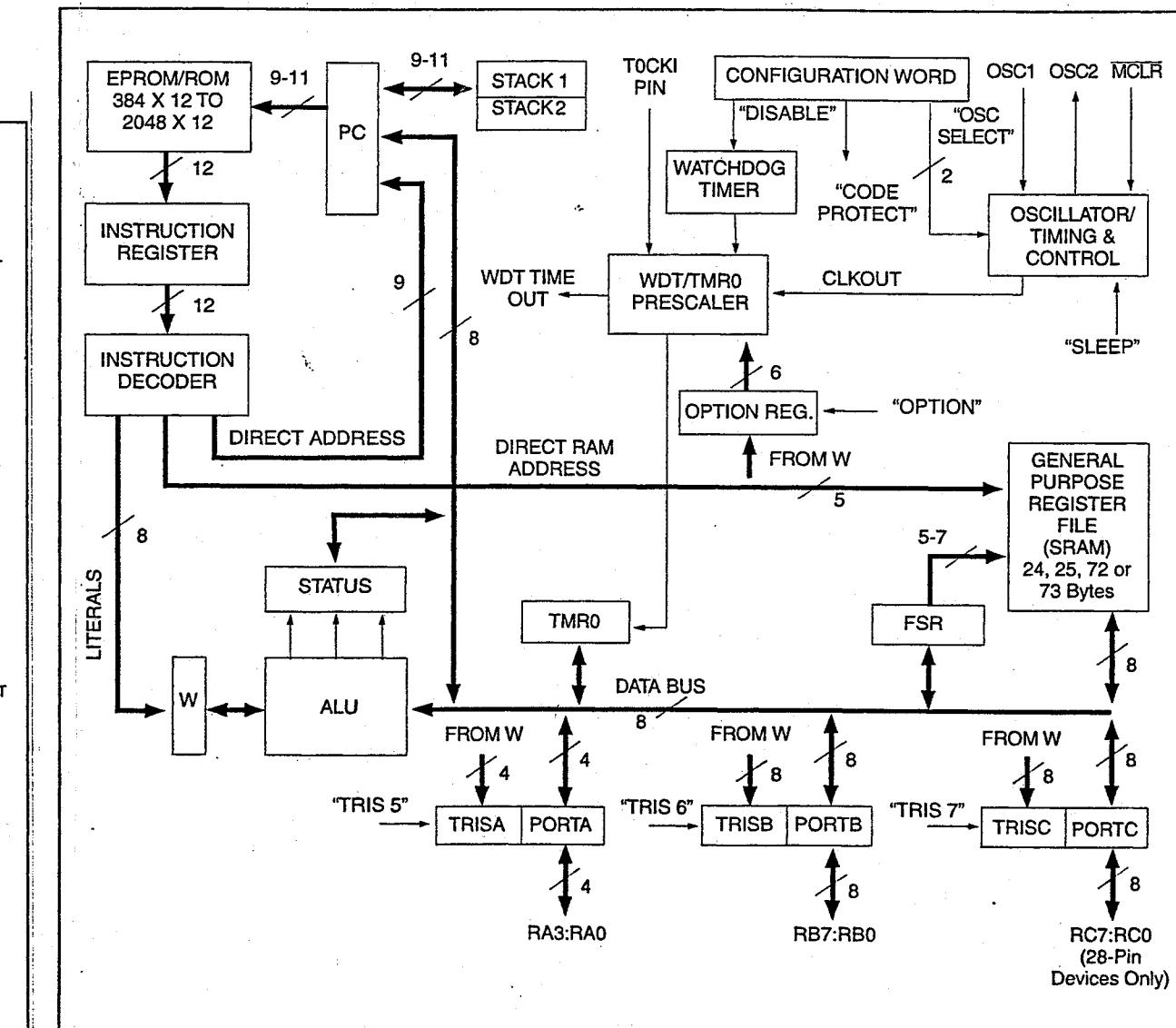


PIC16C56XT : IC302

Pin Diagrams

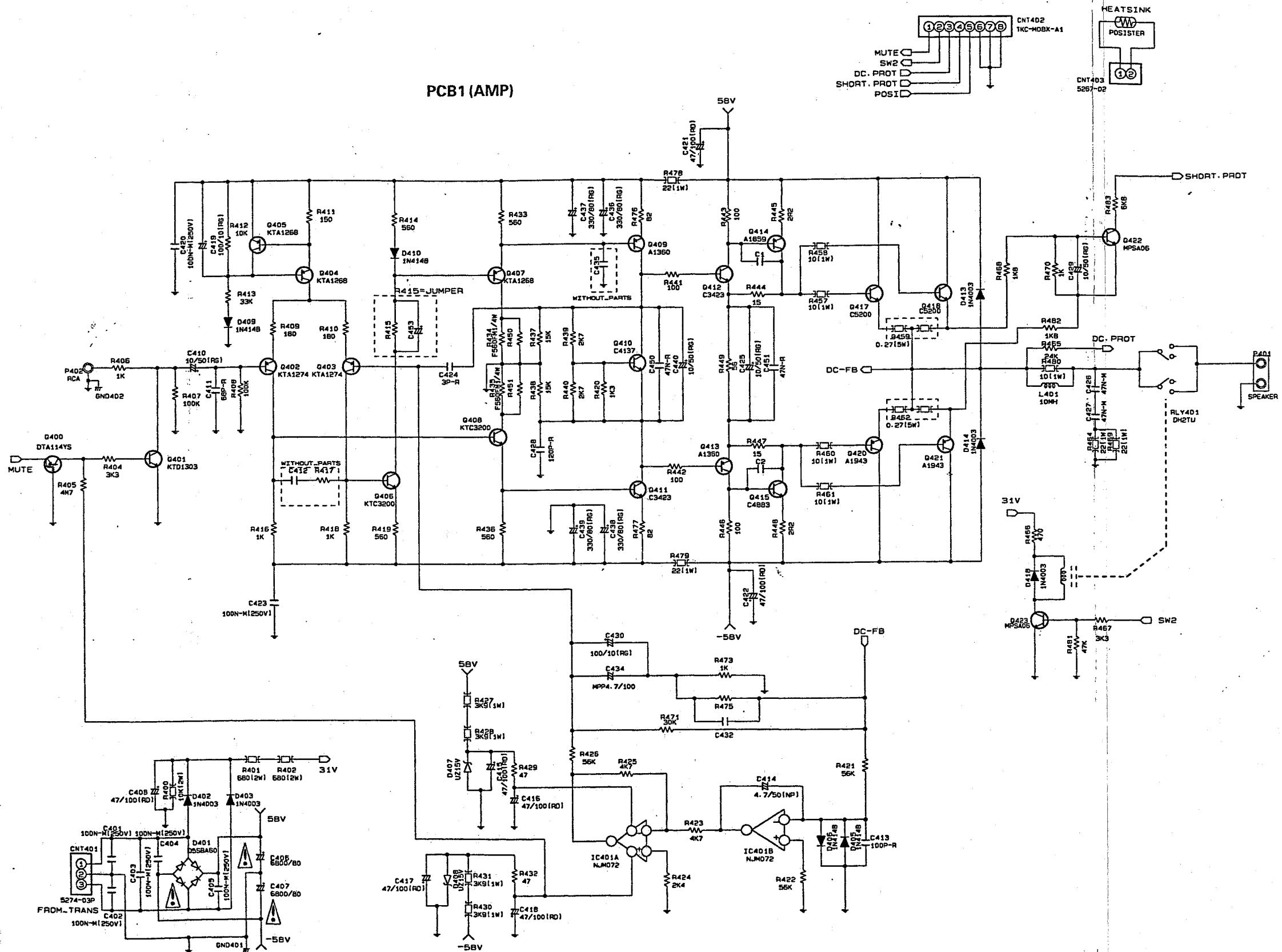


PIC16C56XT - Block Diagram



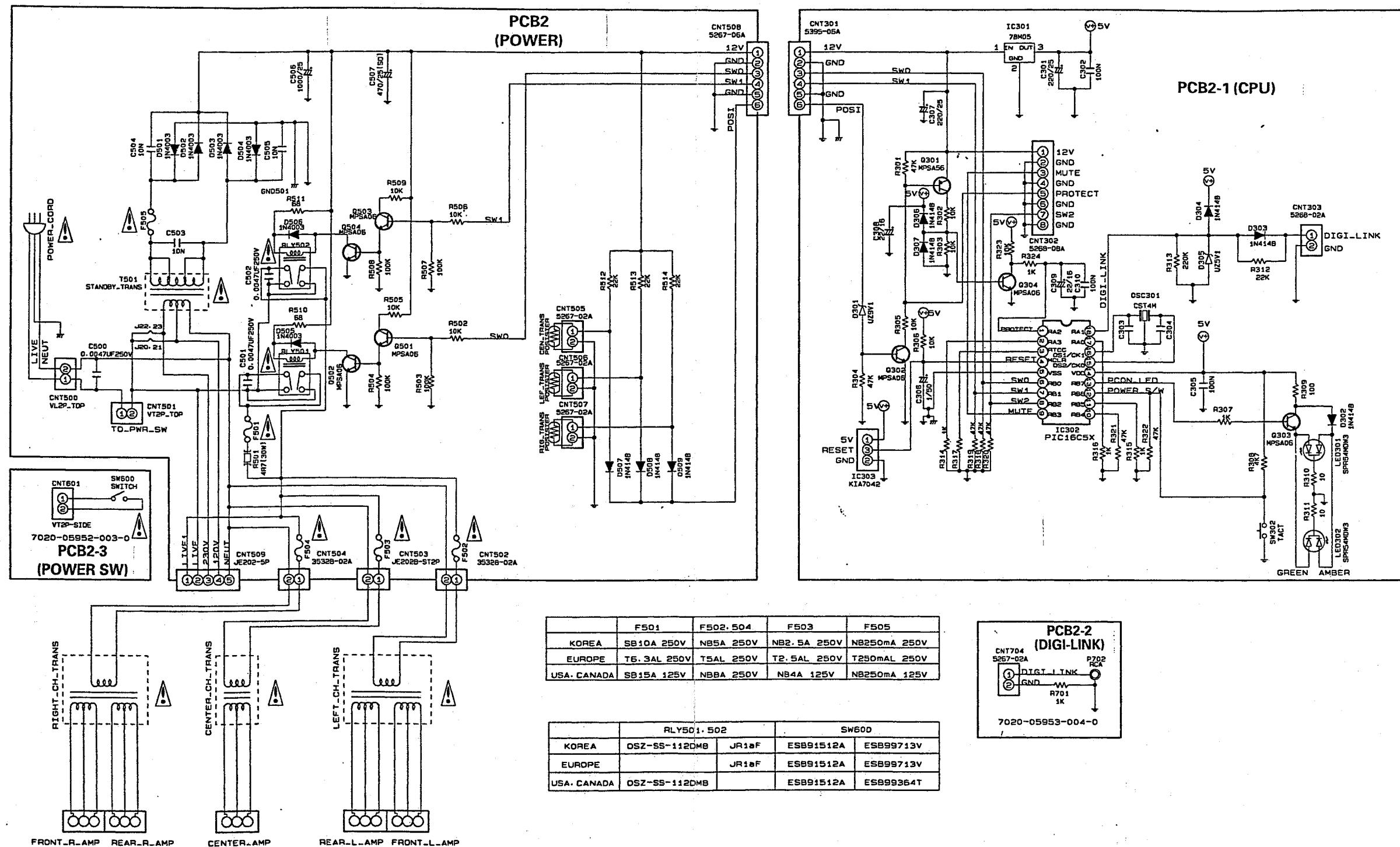
## **SCHEMATIC DIAGRAM (I)**

Model No. : AM-9080/B



## SCHEMATIC DIAGRAM (II)

Model No. : AM-9080/B



### SCHEMATIC DIAGRAM (III)

Model No. : AM-9080/B

